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6172185.pn.	1

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<u>L5</u>	5707855.pn.	1	<u>L5</u>
<u>L4</u>	6358921.pn.	1	<u>L4</u>
<u>L3</u>	6337317.pn.	1	<u>L3</u>
<u>L2</u>	6191254.pn.	1	<u>L2</u>
<u>L1</u>	6465429.pn.	1	<u>L1</u>

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<u>L3</u>	6337317.pn.	1	<u>L3</u>
<u>L2</u>	6191254.pn.	1	<u>L2</u>
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☐ 1. Document ID: US 6818407 B2

L10: Entry 1 of 2

File: USPT

Nov 16, 2004

US-PAT-NO: 6818407

DOCUMENT-IDENTIFIER: US 6818407 B2

TITLE: Anti-endotoxic antimicrobial cationic peptides and methods of use therfor

DATE-ISSUED: November 16, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hancock; Robert E. W.	Vancouver			CA
<u>Gough</u> ; Monisha A.	Vancouver			CA
Patrzykat; Aleksander	Vancouver			CA
Woods; Donald	Calgary			CA
<u>Jia</u> ; Xiaoyan	New Westminster			CA

US-CL-CURRENT: 435/7.1; 435/235.1, 435/325, 514/12, 514/2, 514/21, 530/300, 530/324, 530/350

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	WMC	Draw Desc	Ima
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☐ 2. Document ID: US 6288212 B1

L10: Entry 2 of 2

File: USPT

Sep 11, 2001

US-PAT-NO: 6288212

DOCUMENT-IDENTIFIER: US 6288212 B1

TITLE: Anti-endotoxic, antimicrobial cationic peptides and methods of use therefor

DATE-ISSUED: September 11, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hancock; Robert E. W.	Vancouver			CA
<u>Gough</u> ; Monisha A.	Vancouver			CA
Patrzykat; Aleksander	Vancouver			CA
Woods; Donald	Calgary			CA
<u>Jia</u> ; Xiaoyan	New Westminster			CA

US-CL-CURRENT: 530/300; 435/69.1, 530/324, 530/325, 530/327

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	WMC	Draw Desc	Ima
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NEWS 21 FEB 28 TOXCENTER reloaded with enhancements
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property data
NEWS 23 MAR 01 INSPEC reloaded and enhanced
NEWS 24 MAR 03 Updates in PATDPA; addition of IPC 8 data without attributes

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=> s antimicrobial peptide
L1 5892 ANTIMICROBIAL PEPTIDE

=> s l1 and anti-endotoxic
L2 6 L1 AND ANTI-ENDOTOXIC

=> d l2 ti abs ibib tot

L2 ANSWER 1 OF 6 USPATFULL on STN
TI **Anti-endotoxic**, antimicrobial cationic peptides and methods of use therefor
AB A novel class of cationic peptides having antimicrobial activity is provided. Exemplary peptides of the invention include KWKSFIKKLTSAAKKVTTAKPLALIS (SEQ ID NO:3) and KGWGSFFKKAAHVKGKHAALTHYL (SEQ ID NO:15). Also provided are methods for inhibiting the growth of bacteria utilizing the peptides of the invention. Such methods are useful for the treatment of respiratory infections, such as in cystic fibrosis patients. Such methods are further useful for accelerating wound healing.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
ACCESSION NUMBER: 2004:240457 USPATFULL
TITLE: **Anti-endotoxic**, antimicrobial cationic peptides and methods of use therefor
INVENTOR(S): Hancock, Robert E. W., Vancouver, CANADA
Gough, Monisha A., Vancouver, CANADA
Patrzykat, Aleksander, Vancouver, CANADA
Woods, Donald, Calgary, CANADA
Jia, Xiaoyan, New Westminster, CANADA

NUMBER	KIND	DATE
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PATENT INFORMATION: US 2004186272 A1 20040923
 APPLICATION INFO.: US 2004-823425 A1 20040412 (10)
 RELATED APPLN. INFO.: Division of Ser. No. US 2001-908139, filed on 17 Jul 2001, PENDING Division of Ser. No. US 1998-143124, filed on 28 Aug 1998, GRANTED, Pat. No. US 6288212
 DOCUMENT TYPE: Utility
 FILE SEGMENT: APPLICATION
 LEGAL REPRESENTATIVE: Lisa A. Haile, J.D., Ph.D., GRAY CARY WARE & FREIDENRICH LLP, 4365 Executive Drive, Suite 1100, San Diego, CA, 92121-2133
 NUMBER OF CLAIMS: 46
 EXEMPLARY CLAIM: 1
 NUMBER OF DRAWINGS: 3 Drawing Page(s)
 LINE COUNT: 2198
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 2 OF 6 USPATFULL on STN

TI **Anti-endotoxic** antimicrobial cationic peptides and methods of use therfor

AB A novel class of cationic peptides having antimicrobial activity is provided. Exemplary peptides of the invention include KWKSFIKKLTSAKKVVTAKPLALIS (SEQ ID NO:3) and KGWGSFFKKAHVKGKHAALTHYL (SEQ ID NO:15). Also provided are methods for inhibiting the growth of bacteria utilizing the peptides of the invention. Such methods are useful for the treatment of respiratory infections, such as in cystic fibrosis patients. Such methods are further useful for accelerating wound healing.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:141107 USPATFULL

TITLE: **Anti-endotoxic** antimicrobial cationic peptides and methods of use therfor

INVENTOR(S): Hancock, Robert E. W., Vancouver, CANADA
 Gough, Monisha A., Vancouver, CANADA
 Patrzykat, Aleksander, Vancouver, CANADA
 Woods, Donald, Calgary, CANADA
 Jia, Xiaoyan, New Westminster, CANADA

PATENT ASSIGNEE(S): University of British Columbia (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003096949	A1	20030522
	US 6818407	B2	20041116
APPLICATION INFO.:	US 2001-908139	A1	20010717 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 1998-143124, filed on 28 Aug 1998, PATENTED		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	GARY CARY WARE & FRIENDENRICH LLP, 4365 EXECUTIVE DRIVE, SUITE 1600, SAN DIEGO, CA, 92121-2189		
NUMBER OF CLAIMS:	46		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	3 Drawing Page(s)		
LINE COUNT:	2164		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 3 OF 6 USPATFULL on STN

TI Antimicrobial peptides and methods of use thereof

AB A class of cationic, polyphemusin-like peptides having antimicrobial activity is provided. Examples of such peptides include FRWCFRVCYKGRCRYKCR (SEQ ID NO: 3), RRWCFRVCYKGFCRYKCR (SEQ ID NO: 4), and RRWCFRVCYGRFCYRKCR (SEQ ID NO: 11). Also provided are methods for inhibiting the growth of microbes such as bacteria, yeast and viruses

utilizing the peptides of the invention. The peptides are particularly useful for inhibiting endotoxemia in a subject.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:280572 USPATFULL
TITLE: Antimicrobial peptides and methods of use thereof
INVENTOR(S): Hancock, Robert E.W., Vancouver, CANADA
Zhang, Lijuan, Richmond, CANADA
PATENT ASSIGNEE(S): The University of British Columbia (non-U.S.
corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002156017	A1	20021024
	US 6747007	B2	20040608
APPLICATION INFO.:	US 2002-42872	A1	20020108 (10)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 2000-604864, filed on 27 Jun 2000, GRANTED, Pat. No. US 6337317		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	GARY CARY WARE & FRIENDENRICH LLP, 4365 EXECUTIVE DRIVE, SUITE 1600, SAN DIEGO, CA, 92121-2189		
NUMBER OF CLAIMS:	1		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	7 Drawing Page(s)		
LINE COUNT:	1300		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 4 OF 6 USPATFULL on STN

TI Antimicrobial peptides and methods of use thereof
AB A class of cationic, polyphemusin-like peptides having antimicrobial activity is provided. Examples of such peptides include FRWCFRVCYKGRCRYKCR (SEQ ID NO:3), RRWCFRVCYKGFCRYKCR (SEQ ID NO:4), and RRWCFRVCYGRFCRYKCR (SEQ ID NO:11). Also provided are methods for inhibiting the growth of microbes such as bacteria, yeast and viruses utilizing the peptides of the invention. The peptides are particularly useful for inhibiting endotoxemia in a subject.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:5987 USPATFULL
TITLE: Antimicrobial peptides and methods of use thereof
INVENTOR(S): Hancock, Robert E. W., Vancouver, CANADA
Zhang, Lijuan, Richmond, CANADA
PATENT ASSIGNEE(S): The University of British Columbia, Vancouver, CANADA
(non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6337317	B1	20020108
APPLICATION INFO.:	US 2000-604864		20000627 (9)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Low, Christopher S. F.		
ASSISTANT EXAMINER:	Kam, Chih-Min		
LEGAL REPRESENTATIVE:	Gary Cary Ware & Freidenrich LLP, Haile, Lisa A.		
NUMBER OF CLAIMS:	5		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	10 Drawing Figure(s); 7 Drawing Page(s)		
LINE COUNT:	1288		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 5 OF 6 USPATFULL on STN

TI **Anti-endotoxic**, antimicrobial cationic peptides and

methods of use therefor

AB A novel class of cationic peptides having antimicrobial activity is provided. Exemplary peptides of the invention include KWKSFIKKLTSAAKKVVTAKPLALIS (SEQ ID NO: 3) and KGWGSFFKKAHVGVGKAALTHYL (SEQ ID NO: 15). Also provided are methods for inhibiting the growth of bacteria utilizing the peptides of the invention. Such methods are useful for the treatment of respiratory infections, such as in cystic fibrosis patients. Such methods are further useful for accelerating wound healing.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2001:153103 USPATFULL

TITLE: **Anti-endotoxic**, antimicrobial cationic peptides and methods of use therefor

INVENTOR(S): Hancock, Robert E. W., Vancouver, Canada
Gough, Monisha A., Vancouver, Canada
Patrzykat, Aleksander, Vancouver, Canada
Woods, Donald, Calgary, Canada
Jia, Xiaoyan, New Westminster, Canada

PATENT ASSIGNEE(S): The University of British Columbia, Vancouver, Canada
(non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6288212	B1	20010911
APPLICATION INFO.:	US 1998-143124		19980828 (9)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Carlson, Karen Cochrane		
ASSISTANT EXAMINER:	Robinson, Patricia		
LEGAL REPRESENTATIVE:	Gary Cary Ware Friedenrich, Haile, Lisa A.		
NUMBER OF CLAIMS:	1		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	3 Drawing Figure(s); 3 Drawing Page(s)		
LINE COUNT:	1611		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 6 OF 6 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on STN

TI Anti-endotoxin properties of cationic host defence peptides and proteins
AB The innate immune system of mammals contains a series of peptides with overall positive charge and an amphipathic structure which have a variety of important properties in host defences. Although these are often termed cationic antimicrobial peptides, they have numerous roles in innate defences in all complex species of life and thus we prefer to refer to them as host defence peptides. These roles include: (i) an ability to kill micro-organisms directly, ranging from bacteria to viruses, fungi, parasites and helminths; (ii) an adjuvant activity in the adaptive response; and (iii) a multiplicity of roles in modulating innate immunity, including an apparent ability to stimulate protective innate immunity while suppressing harmful inflammatory/septic responses. This latter property may be one of the more important activities of these peptides in vivo. Innate immunity is thought to be triggered by the interaction of conserved bacterial components with particular receptors including Toll-like receptors (TLRs) on host cells. However, the initiation of the innate immune response through this route may trigger a pro-inflammatory cascade that is the principle cause of harmful conditions such as sepsis. Since we are exposed to potentially dangerous pathogens on a daily basis, the host response must contain certain checks and balances. We propose that host defence peptides have a role in feed-back modulation of inflammation under normal (low-pathogen exposure) conditions. This review surveys the available information regarding the **anti-endotoxic/anti-inflammatory** properties of host defence peptides,

and will address whether this potential might be exploited for therapeutic benefit in sepsis.

ACCESSION NUMBER: 2005:994741 SCISEARCH
THE GENUINE ARTICLE: 968ZT
TITLE: Anti-endotoxin properties of cationic host defence peptides and proteins
AUTHOR: Bowdish D M E; Hancock R E W (Reprint)
CORPORATE SOURCE: Univ British Columbia, Ctr Microbial Dis & Immun Res, Room 225, 2259 Lower Mall Res Stn, Vancouver, BC V6T 1Z4, Canada (Reprint); Univ British Columbia, Ctr Microbial Dis & Immun Res, Vancouver, BC V6T 1Z4, Canada
bob@cmdr.ubc.ca
COUNTRY OF AUTHOR: Canada
SOURCE: JOURNAL OF ENDOTOXIN RESEARCH, (2005) Vol. 11, No. 4, pp. 230-236.
ISSN: 0968-0519.
PUBLISHER: MANEY PUBLISHING, HUDSON RD, LEEDS LS9 7DL, ENGLAND.
DOCUMENT TYPE: Article; Journal
LANGUAGE: English
REFERENCE COUNT: 76
ENTRY DATE: Entered STN: 13 Oct 2005
Last Updated on STN: 13 Oct 2005
ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

=> e hancock, r/au

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E2	3	HANCOCK Y/AU
E3	0 -->	HANCOCK, R/AU
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